PATENT COOPERATION TREATY

To:

ISRAËL

From the INTERNATIONAL BUREAU

G.E. EHRLICH (1995)-LTD.

PCT

NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis.1(c))

Date of mailing (day/month/year)

Applicant's or agent's file reference 27797

29 March 2007 (29.03.2007)

International application No. PCT/IL2004/000335

Applicant

International filing date (day/month/year) 18 April 2004 (18.04.2004)

Priority date (day/month/year) 16 April 2003 (16.04.2003)

G.E. EHRLICH (1993)

11 Menachem Begin Street

IMPORTANT NOTICE

YEDA RESEARCH AND DEVELOPMENT CO. LTD. et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

> The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 27797	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/IL2004/000335	International filing date (day/month/year) 18 April 2004 (18.04.2004)	Priority date (day/month/year) 16 April 2003 (16.04.2003)	
International Patent Classification (8tl See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237		
Applicant YEDA RESEARCH AND DEVELO	PMENT CO. LTD.		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).					
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	The International Bureau will co not, except where the applicant n date (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority				

	Date of issuance of this report 20 March 2007 (20.03.2007)		
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Simin Baharlou		
Facsimile No. +41 22 338 82 70	e-mail: pt09.pct@wipo.int		

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

INTERNAT	TONAL SEARCE	HING AUTHO	ORITY				
INTERNATIONAL SEARCHING AUTHORITY To: GEOFFREY L. MELNICK G.E. EHRLICH (1995) LTD. 11 MENACHEM BEGIN STREET RAMAT GAN, ISRAEL 52 521				PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			1		(PCT Rule 43bis.1)		
				Date of mailing (day/month/year)	17 JAN 20 07		
1 - 1	's or agent's file r	eference		FOR FURTHER ACTION			
27797	of amplication NY		1.67	See paragraph 2 below			
	nal application No		International filing date		Priority date (day/month/year)		
PCT/IL04		cation (TPC) o	18 April 2004 (18.04.20 r both national classificat		02 June 2003 (02.06.2003)		
		·	/00(2007.01),38/47(2007				
	435/201;514/2;42		00(2007.01),38/47(200,				
Applicant							
YEDA RE	SEARCH AND I	DEVELOPME	INT CO. LTD.				
1. This c	pinion contains is	ndications rela	ting to the following item	s:			
\boxtimes	Box No. I	Basis of the	opinion				
	Box No. II Priority						
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				entive step and industrial applicability		
\boxtimes	Box No. IV	Lack of unity of invention					
\boxtimes	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
	Box No. VI	Certain docu	ments cited				
	Box No. VII	Certain defe	cts in the international app	plication			
\boxtimes	Вох №. УШ	Certain obse	rvations on the internation	nal application			
2. FUR'	THER ACTIO	N.					
If a de Interna Autho	emand for interna ational Prelimina rity other than thi	itional prelimi ry Examining is one to be th	Authority ("IPEA") ex	cept that this does PEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an an international Bureau under Rule 66.1bis(b) ered.		
IPEA	a written reply to	gether, where	considered to be a writt appropriate, with amends spiration of 22 months fro	nents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.		
For further options, see Form PCT/ISA/220.							
3. For fu	rther details, see n	otes to Form I	PCT/ISA/220.				
N C P A	mailing address of fail Stop PCT, Attn: commissioner for Pa O. Box 1450 dexandria, Virginia	: ISA/US tents 22313-1450		ion of this opinion 006 (14.12.2006)	Authorized officer Definite Steadman / Wallow Telephone No. 571-272-1600		
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Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

International application No.

PCT/IL04/00335

Box No	o. 1 Basis of this opinion							
1. With	regard to the language, this opinion has been established on the basis of:							
\boxtimes	the international application in the language in which it was filed							
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).							
2 With	regard to any uncleatide and/or amino acid segmence disclosed in the international ambigation and processors to the discussion							
inven	2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:							
a.	a. type of material							
	a sequence listing							
	table(s) related to the sequence listing							
b.	format of material							
	on paper							
	in electronic form							
c,	time of filing/furnishing							
	contained in the international application as filed.							
	filed together with the international application in electronic form.							
	furnished subsequently to this Authority for the purposes of search.							
3. 🔲	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.							
4. Additi	onal comments:							

International application No.
PCT/IL04/00335

Во	ox No. IV Lack of unity of invention
 2. 3. 	In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee paid additional fees under protest but the applicable protest fee was not paid not paid additional fees This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
	complied with
	not complied with for the following reasons: See the lack of unity section of the International Search Report(Form PCT/ISA/210)
4. C	Consequently, this opinion has been established in respect of the following parts of the international application: all parts. the parts relating to claims Nos. 1-8.33-54,57-75,87-97, reciting Table 4 and SEO ID NO:1

International application No. PCT/IL04/00335

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2. Citations and explanations:

Claims 1-3, 5-6, 33-37, and 57-75 lack novelty under PCT Article 33(2) as being anticipated by Roeber et al. (Acta Crystallogr D Biol Crystallogr 59D:343-344, 2003), which teaches: 1) Ceredase and Cerezyme, which are disclosed as being recombinant human beta-glucocerebrosidase used clinically for treatment of Gaucher's disease; 2) a crystal of a recombinant human glucocerebrosidase having orthorhombic space group C2221 and unit cell parameters a=285.0, b=110.2, c=91.7 Angstroms and diffracts X-rays to a resolution of 2.75 Angstroms; and 3) a method of making said crystal.

Claims 87-97 lack an inventive step under PCT Article 33(3) as being obvious over Roeber et al., which, as noted above, teaches Ceredase and Cerezyme, which are disclosed as being recombinant human beta-glucocerebrosidase used clinically for treatment of Gaucher's disease. In view of the teachings of Roeber et al. the "article of manufacture" according to claims 87-97 would have been obvious.

Claims 4, 7-8, 38-54 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the claimed invention.

Claims 1-8, 33-54, 57-75, and 87-97 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

International application No.

PCT/IL04/00335

Box No. VIII	Certain	observations	on the	international	application
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The following observations on the claims of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims I-8, 33-54, 57-75, and 87-97 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because the claims are not fully supported by the description. The application, as originally filed, did not describe: all crystals, methods of making, pharmaceutical compositions, and articles of manufacture as encompassed by the claims. In this case, the disclosure of the single polypeptide, crystal thereof, and method of making said crystal fail to describe all crystals, methods of making, pharmaceutical compositions, and articles of manufacture as encompassed by the claims.

Claims 1-8, 33-54, 57-75, and 87-97 are objected to as lacking clarity under PCT Rule 66.2(a)(v) because of the claims are not fully supported by the description. The description does not disclose the claimed invention in a manner sufficiently clear and complete for the claimed invention to be carried out by a person skilled in the art because: the disclosure of the single polypeptide, crystal thereof, and method of making said crystal fails to enable one to make all crystals, methods of making, pharmaceutical compositions, and articles of manufacture as encompassed by the claims.

Form PCT/ISA/237 (Box No. VIII) (April 2005)